

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) An apparatus for detecting a plurality of environmental conditions comprising:

a housing unit containing a light sensor;

a memory storage device disposed in said housing unit;

a circuit board electrically connected to said ~~at least one~~ light sensor and the memory storage device, and contained within the housing unit, said memory storage device storing data from said light sensor; and

at least one moisture probe physically connected to the housing unit, and electrically connected to the circuit board.

2. (previously presented) The apparatus of claim 1 wherein said housing unit contains a temperature sensor.

3. (original) The apparatus of claim 1 wherein the housing unit further comprises an accessible compartment providing access to the memory storage device.

4. (original) The apparatus of claim 1 wherein the memory storage device interfaces with the circuit board through a universal serial bus (USB).

5. (original) The apparatus of claim 1 further comprising a global positioning satellite (GPS) system which provides geographic information.

6. (previously presented) The apparatus of claim 2 wherein the light sensor includes an ultraviolet sensor and the temperature sensor is a thermometer.

7. (original) The apparatus of claim 1 further comprising a battery in the housing unit.

8. (original) The apparatus of claim 7 further comprising a battery charger connectable to said housing unit to recharge the battery.

9. (original) The apparatus of claim 7 further comprising at least one solar cell for recharging the battery.

10. (currently amended) A method of determining vegetation capable of thriving in a plurality of environmental conditions, comprising the steps of:

sensing the plurality of environmental conditions including sunlight intensity with an environment detection apparatus;

storing the plurality of sensed environmental conditions including sunlight intensity data on a memory storage device; and

downloading the plurality of environmental conditions to a database, wherein a processor accesses data from the database and determines ~~displays~~ a list of

vegetation capable of surviving in the plurality of stored environmental conditions, said processor then provides said list of vegetation to a display device for displaying said list of vegetation to a user.

11. (currently amended) The method of claim 10 wherein the plurality of environmental conditions further comprises a geographic location, a date and time reading, a temperature reading, and a moisture reading.

12. (original) The method of claim 11 wherein at least one ultraviolet sensor determines the sunlight intensity reading, and at least one moisture probe determines the moisture reading.

13. (original) The method of claim 12 wherein a global positioning satellite system determines the geographic location, the date and time reading, and the temperature reading.

14. (original) The method of claim 12 wherein the user manually inputs the geographic location into the database, a timer determines the date and time reading, and a thermometer determines the temperature reading.

15. (currently amended) A control system for using an environment detection apparatus as an activation device for a sprinkler system comprising:

~~at least one~~ a sunlight intensity sensor determining at least one environmental condition including for providing a sunlight intensity reading;

at least one logical ~~operation~~ operator producing an output to an actuator based on the ~~at least one environmental condition~~ sunlight intensity; and

the actuator activating the sprinkler system based on the output of the at least one logical ~~operation~~ operator.

16. (cancelled)

17. (previously presented) The control system of claim 15 wherein at least one ultraviolet sensor determines the sunlight intensity reading.

18. (currently amended) The control system of claim 15 ~~wherein the at least one environmental condition includes~~ further comprising a ground moisture sensor for providing a moisture reading for said logical operator.

19. (cancelled)

20. (previously presented) The control system of claim 15 wherein the at least one environmental condition includes a weather forecast which is read from a remote device.

21. (currently amended) An apparatus for detecting a plurality of environmental conditions comprising:

a housing unit including a ~~first~~ light sensor ~~configured to measure an above-soil condition~~ and a temperature sensor;

a memory storage device disposed in said housing unit for storing data from said light sensor and said temperature sensor;

a circuit board electrically connected to said first sensor and said memory storage device, and contained within said housing unit; and

a second sensor including a moisture probe physically connected to said housing unit and electrically connected to said circuit board.

22-23. (cancelled)